

## ARG82472 Mouse Midkine ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82472-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82472-002	Standard	2 X 10 ng/vial	4°C
ARG82472-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82472-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82472-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82472-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82472-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82472-008	25X Wash buffer	20 ml	4°C
ARG82472-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82472-010	STOP solution	10 ml (Ready to use)	4°C
ARG82472-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82472 Mouse Midkine ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse Midkine in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Target Name	Midkine
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.3 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.2% Inter-Assay CV: 7.1%

**Alternate Names** ARAP; Neurite outgrowth-promoting protein; Midkine; MK; Neurite outgrowth-promoting factor 2; Amphiregulin-associated protein; Midgestation and kidney protein; NEGF2

## Application Instructions

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**Assay Time** ~ 5 hours

## Properties

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**Form** 96 well

**Storage instruction** Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

**Note** For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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**Gene Symbol** MDK

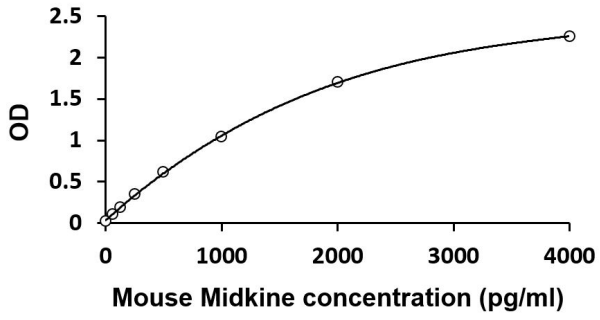
**Gene Full Name** midkine (neurite growth-promoting factor 2)

**Background** This gene encodes a member of a small family of secreted growth factors that binds heparin and responds to retinoic acid. The encoded protein promotes cell growth, migration, and angiogenesis, in particular during tumorigenesis. This gene has been targeted as a therapeutic for a variety of different disorders. Alternatively spliced transcript variants encoding multiple isoforms have been observed. [provided by RefSeq, Jul 2012]

**Function** Developmentally regulated, secreted growth factor homologous to pleiotrophin (PTN), which has heparin binding activity. Binds anaplastic lymphoma kinase (ALK) which induces ALK activation and subsequent phosphorylation of the insulin receptor substrate (IRS1), followed by the activation of mitogen-activated protein kinase (MAPK) and PI3-kinase, and the induction of cell proliferation. Involved in neointima formation after arterial injury, possibly by mediating leukocyte recruitment. Also involved in early fetal adrenal gland development (By similarity). [UniProt]

**Highlight** Related products:  
[Midkine antibodies](#); [Midkine ELISA Kits](#);  
New ELISA data calculation tool:  
[Simplify the ELISA analysis by GainData](#)

**Cellular Localization** Secreted. [UniProt]



ARG82472 Mouse Midkine ELISA Kit standard curve image

ARG82472 Mouse Midkine ELISA Kit results of a typical standard run with optical density reading at 450 nm.